

Workshop on electron properties of nanoscale systems

Place: Building 223, Conference Room B-002

10-Nov Monday

Magnetism

Time	Author	Title
08:50-09:00	G. Crabtree	Opening and Welcome
09:00-09:45	S. Bader	Confined antiferromagnets
09:45-10:30	A. Abrikosov	Metal-Insulator Transition in Layered Cuprates
10:30-11:00		Coffee break
11:00-11:45	A. Buzdin	Inversion of the proximity effect in hybrid ferromagnetic-superconductor-ferromagnet structures
11:45-14:00		Lunch
14:00-14:45	V. Pokrovsky	Landau-Zener transitions with the fast noise
14:45-15:30	I. Lyuksyutov	Levitation on a magnetic microchip
15:30-16:00		Coffee break
16:00-16:45	V. Kravchenko	Magnetoresistance and spin injection in a layered magnetic -nonmagnetic metal structures
16:45-17:30	R. Shekhter	Shuttling of spin-polarized electrons
17:30-18:15	A. S. Melnikov	Domain wall superconductivity in ferromagnetic superconductors and hybrid S-F structures
18:15-19:00	S. Urazhdin	Current-driven magnetization switching and excitations in magnetic multilayer nanopillars

11-Nov Tuesday

Transport

Time	Author	Title
09:00-09:45	A. Kamenev	Coulomb blockade and transport in granular arrays
09:45-10:30	Z. Ovadyahu	Anomalies in the phase-coherent time of electrons in diffusive systems
10:30-11:00		Coffee break
11:00-11:45	I. Beloborodov	Granular superconductors: transport and thermodynamic properties
11:45-14:00		Lunch
14:00-14:45	V. Pudalov	How universal are the electron-electron interaction effects in various 2D systems?
14:45-15:30	S. Kravchenko	Metal-insulator transition in 2D: History and new developments
15:30-16:00		Coffee break
16:00-16:45	A. Finkelstein	Hall effect in the electron gas with interaction
16:45-17:30	V. Kozub	Single-hop-dominated transport through a constriction
17:30-18:15	A. Varlamov	Effects of proximity to an electronic topological transition on normal state transport in HTSC
18:15-19:00	H. Jaeger	Self-Assembly and Electronic Transport Properties of Metal Nanocrystal Superlattices

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12-Nov Wednesday

Coherent transport, noise

Time	Author	Title
09:00-09:45	V. Goldman	Coherent control of fractional changes in quantum antidot devices
09:45-10:30	D. Prober	Environment effects in the third moment of voltage fluctuations of a tunnel junctions
10:30-11:00		Coffee break
11:00-11:45	A. Shelankov	Quantum measurement of a two-level system
11:45-14:00		Lunch
14:00-14:45	A. Aharony	Phase measurements in AB interferometers
14:45-15:30	O. Entin-Wohlman	Radiation effects on currents in AB interferometers
15:30-16:00		Coffee break
16:00-16:45	A. Bezryadin	H/E Magnetic flux modulation of the energy gap in nanotube quantum dots
16:45-17:30	E. Bezuglyi	Full counting statistics in incoherent Andreev reflection regime
17:30-18:15	R. Ramazashvili	Scaling approach to itinerant quantum critical points

13-Nov Thursday

Superconductivity, Josephson effect

Time	Author	Title
09:00-09:45	M. Hruška	Non-demolition measurements of a single quantum spin by use of Josephson oscillations
09:45-10:30	V. Ryazanov	Thickness dependent characteristics and phase sensitive tests of S-F-S Josephson junctions
10:30-11:00		Coffee break
11:00-11:45	A. Koshelev	Why magnesium diboride is not described by anisotropic Ginzburg-Landau theory
11:45-14:00		Lunch
14:00-14:45	N. Kopnin	Re-entrant localization of single-particle transport in disordered Andreev wires
14:45-15:30	J. Bekaert	Vortex matter in ferromagnet/superconductor nanostructures
15:30-16:00		Coffee break
16:00-16:45	E. Chudnovsky	Conservation of angular momentum in the dynamics of the magnetic flux in superconductors
16:45-17:30	K. Matveev	Conductance of a quantum wire in the Wigner crystal regime
17:30-18:15	S. Frolov	Phase-sensitive experiments in SFS Josephson pi-junctions
20:30		Conference dinner

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14-Nov Friday

Miscellaneous

Time	Author	Title
09:00-09:45	E. Chudnovsky	Terahertz radiation from molecular magnets
09:45-10:30	A. Lopatin	Transport properties of granular materials
10:30-11:00		Coffee break
11:00-11:45	V. Chandrasekhar	Impurity mediated conduction of multiwall carbon nanotubes
11:45-14:00		Lunch
14:00-14:45	A. Glatz	Influence of thermal fluctuations on quantum phase transitions in one-dimensional CDWs
14:45-15:30	B. Janko	Zeeman-localized states in diluted magnetic semiconductor-permalloy hybrids